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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,753	01/29/2004	Taro Hosozawa	892_029	5704
25191 . 75	10/03/2006	•	EXAMINER	
BURR & BROWN			SOOHOO, TONY GLEN	
PO BOX 7068 SYRACUSE, N	NY 13261-7068		ART UNIT	PAPER NUMBER
ŕ			1723	
			DATE MAILED: 10/03/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/767,753	HOSOZAWA, TARO
Office Action Summary	Examiner	Art Unit
	Tony G. Soohoo	1723
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 136(a). In no event, however, may a repl will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	ATION. ly be timely filed AS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 16 A	August 2006.	
	s action is non-final.	
3) Since this application is in condition for allowa	ance except for formal matter	s, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims		
 4) Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) 7-10 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	n from consideration.	
Application Papers		
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by drawing(s) be held in abeyance ction is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Appority documents have been re au (PCT Rule 17.2(a)).	olication No eceived in this National Stage
Attachment(s)	A) [] !	mman: (DTO 412)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/I	mmary (PTO-413) Mail Date nmal Patent Application

DETAILED ACTION

Claims 1-6 and 11 are under consideration. Claims 7-10 are withdrawn to a nonelected invention. See paper mailed 04/10/2006.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-6 and 11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claim(s) contain subject matter which was not described in the specification in such a way as to reasonably convey t one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 recites that the "plurality of hole, each having the same size as one another" (see also the amended claims filed 1/31/2006, for the original insertion). There is no original basis for such a description that each hole size are the same as one another.

Also claim 10 fails to provide original basis for "each of the plurality of holes formed in the partition member [having] a polygonal outer peripheral shape."

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 and 11 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Flint et al 5516209 (Flint '209).

Flint '209 shows a flexible sheet have a 1st mixing passage 28, and a 2nd mixing passage 28, and mixing elements formed at the interface at 40 inside the chambers 28 forming holes which provides a dividing and combing of the flow a material from mixing.

It is noted that the holes appear to have spacing between the elements 40 which appear to be the same size separating the flow into multiple times for mixing.

Nonetheless, it is deemed that it would have been obvious to one of ordinary skill in the art to change the *number and size* of the holes and intermediate partition to any equal or relative size or order, without undue experimentation in order to optimize and affect the amount of working of the material as it flows across the mixer.

With regards to the recitation of "where the passage are formed by", the statement directed to the method of making the device and does not structurally distinguish the finally formed product. Thereby it is denied any structural distinction. With regards to the recitation of the use of welds to form the product, such feature is also directed to a method of construction, such a recitation to the manner of producing a

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join via a weld has been fully considered and granted no patentable distinction to the claimed structure defined by the final apparatus product.

With regards to the recitation of "so as that the materials to be mixed are divided [a number of] times and merged together". The recitation is directed to the operation of the device and does not positively limit the scope of the number of holes or partitions, thus has not been afforded any structural distinction.

With regards to claim 11, the holes each a have a sides, thereby may be deemed as polygonal in the peripheral shape. Nonetheless, absent any unexpected results, the peripheral shape of the hole may be changed in any shape in order to optimized the mixing caused by the flow streams in the mixer. It has been held that, absent any unexpected result, a mere change in form or shape on the basis of suitability is a matter of obvious mechanical design choice. In re Dailey, 149 USPQ 47 (CCPA 1976).

5. Claims 1-6 and 11 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Flint 6135632 (Flint '632).

Flint '632 shows a flexible sheet, have a 1st mixing passage located on one side 1st sheet 20 formed between the intermediate partition 22, 55, 44, and a 2nd mixing passage 28 located between the 2nd sheet 24 and intermediate portion 22, 55, 44, and further mixing elements holes 80, 85, 90 formed at the interface at 40 inside the

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chambers 28 forming holes which provides a dividing and combing of the flow a material from mixing.

It is noted that the some holes appear to have a depth and diameter which appear to be the same size which provides multiple flows for mixing. Nonetheless, it is deemed that it would have been obvious to one of ordinary skill in the art to change the *number and size* of the holes and intermediate partition to any equal or relative size or order, without undue experimentation in order to optimize and affect the amount of working of the material as it flows across the mixer.

With regards to the recitation of "where the passage are formed by", the statement directed to the method of making the device and does not structurally distinguish the finally formed product. Thereby it is denied any structural distinction. With regards to the recitation of the use of welds to form the product, such feature is also directed to a method of construction, such a recitation to the manner of producing a join via a weld has been fully considered and granted no patentable distinction to the claimed structure defined by the final apparatus product.

With regards to the recitation of "so as that the materials to be mixed are divided [a number of] times and merged together". The recitation is directed to the operation of the device and does not positively limit the scope of the number of holes or partitions, thus has not been afforded any structural distinction.

With regards to claim 11, the holes 80, 85, 90 adjacent 100 upon the intermediate portion 22 each have a periphery which appears to be arcuate.

Nonetheless, absent any unexpected results, the peripheral shape of the hole may be

changed in any shape in order to optimized the mixing caused by the flow streams in the mixer. It has been held that, absent any unexpected result, a mere change in form or shape on the basis of suitability is a matter of obvious mechanical design choice. In re Dailey, 149 USPQ 47 (CCPA 1976).

Conclusion

6. This is a CPA of applicant's earlier Application No. 10/767753. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony G. Soohoo whose telephone number is (571) 272 1147. The examiner can normally be reached on 8AM-5PM, Tue-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

∕Yony∕G Soohbo ∕/ Primary Examiner Art Unit 1723
